

UNIVERSAL

BARREL KIT



**ARCHWAYS
&
CEILINGS**
MADE EASY

INSTALLATION INSTRUCTIONS



MADE IN THE
USA

**FOR PROS and
DO-IT-YOURSELFERS**
www.ArchKit.com

UNIVERSAL

BARREL KIT

by
ARCHWAYS & CEILINGS
MADE EASY
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A QUICK NOTE REGARDING THESE INSTALLATION INSTRUCTIONS

Don't be overwhelmed by the size of these installation instructions. You'll only be using a few pages, as this booklet includes instructions for installations in both a new construction setting and a remodel setting. We've also included a "how to" section to extend the length and width of your barrel ceiling; and, as a bonus, how to create a spectacular Groin Vault Cross by combining 2 Universal Barrel Kits with 1 Universal Groin Kit. Plus, we've included drywall instructions with a few tips and tricks to help simplify this process. We've got you covered!



- Measuring Tape
- Pencil
- Square
- Simple Calculator
- Chalk Line
- Circular Saw
- Nail Gun w/ 16D (PROs) or Screw Gun w/ 3" (or greater) deck screws (DIYers)
- 2x4s
- Hard Hat & Safety Glasses



Optional materials and tools you may need when working in a remodel.

- 3/8" drill bit
- 1/8" x 3" Steel Mushroom-Head Toggle Bolts (or any hardware capable of fastening a 2x4 to drywall)
- 1/8" x 1" Steel Fender Washers
- Stud Finder
- Utility Knife/Wallboard Saw

WARNING: Standard safety precautions should be taken when installing Arch-Rite® archways and ceilings. Installer should be familiar with safe operating procedures for power tools, wood working tools and ANY ladders necessary for installation. The installer should follow published installation instructions and wear proper head and eye protection (i.e. hard hat and safety glasses). Arch-Rite® and its Licensees assume no liability for any injury or accident as a result of installing any Arch-Rite® products. All Arch-Rite® products are designed to bear only the weight of drywall, drywall products, paint, trim and/or finishing items. Arch-Rite® products are NOT designed to bear and CANNOT bear the weight and forces of any building or structure. All Arch-Rite® products are to be used ONLY FOR AESTHETIC PURPOSES and are NOT LOAD-BEARING.

FINDING YOUR INSTALLATION INSTRUCTIONS

NEW CONSTRUCTION

Continue on to **page 3** for the installation instructions for new construction.



IN A REMODEL

Continue on to **page 6** for the installation instructions in a remodel.



*If you have removed all the drywall in the room where you plan to install your Universal Barrel Kit, then use the New Construction instructions

WHAT ELSE CAN YOU DO WITH THE UNIVERSAL BARREL KIT?

EXTEND THE LENGTH

What if my barrel ceiling is longer than 48"?

Continue on to **page 11** to learn how to extend the length of your barrel ceiling.

EXTEND THE WIDTH

What if my barrel ceiling is wider than 66"?

Continue on to **page 11** to learn how to extend the width of your barrel ceiling.



BONUS FEATURE: GROIN VAULT CROSS



GET SPECTACULAR

How about a Groin Vault Cross?

Continue on to **page 11** to learn how to combine 2 Universal Barrel Kits with 1 Universal Groin Kit to create a Groin Vault Cross.

NEW CONSTRUCTION FRAMED ROOM WITH NO DRYWALL



1. Before you can begin installing your barrel ceiling, you first need to do a bit of light framing. But before you can do this, you need to decide if you'll be attaching a can light in the center of your barrel ceiling.

NO CAN LIGHT

1. Using a nail gun w/ 16d nails (PROs) or screw gun w/ 3" (or greater) wood screws (DIYers) fasten a rectangular box using 2x4s the width and length of the barrel ceiling to the bottom of your joists/trusses.

If you'd prefer to drop your barrel ceiling more than the depth of a 2x4, simply move your rectangular box down from your joists/trusses. Please note that you'll need to fasten a 2x4 to your joists/trusses flush with the front face of your barrel ceiling for drywall backing.

2. Fasten a double 2x4 centered in your rectangular box down the length of your barrel ceiling.

You're now ready to begin installing.

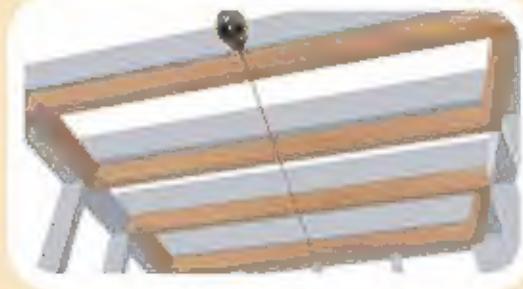
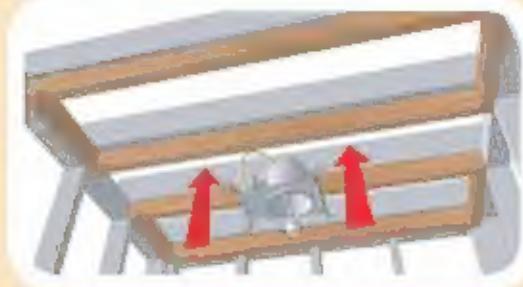
YES, ADD CAN LIGHT

1. Using a nail gun w/ 16d nails (PROs) or screw gun w/ 3" (or greater) wood screws (DIYers) fasten 2 rectangular boxes using 2x4s the width and length of the barrel ceiling to the bottom of your joists/trusses. Take care to space your 2 rectangular boxes far enough apart to fit your can light but no more than 14 ½" apart (drywall purposes).

If you'd prefer to drop your barrel ceiling more than the depth of a 2x4, simply move your rectangular boxes down from your joists/trusses. Please note that you'll need to fasten a 2x4 to your joists/trusses flush with the front face of your barrel ceiling for drywall backing.

2. Using a chalk line, snap a center line on the underside of 2 rectangular boxes centered down the length of your barrel ceiling.

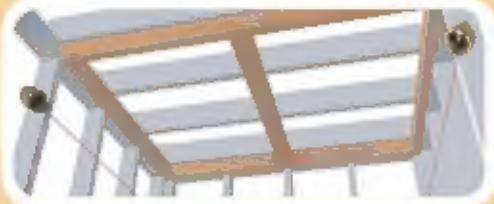
You're now ready to begin installing.



- 2.** Measure and mark down from your rectangular box(es) along each wall and at each end of your barrel ceiling the **total rise**. Reference the "Finding Your Measurements" chart on [page 13](#) and find the **total rise** measurement that responds to the width of your barrel ceiling (distance from wall to wall).



- 3.** Using your marks as a guide, snap a line (with your chalk line) on both walls down the length of your barrel ceiling.



- 4.** If building code requires you to fire block, block in between the studs along each wall while aligning the bottom of your fire block to the snap line.

Skip to step 9, as steps 5-8 discuss the use of ledger blocks which are not needed if you've fire blocked.



- 5.** If you don't need to fire block, then check to see if the studs on both walls line up with each other. If they do then skip to step 9 as you can attach the barrel strut halves directly to the studs. If your studs don't align, then the use of ledger blocks is an easy way to quickly install the barrel struts to the wall without having to block in between your walls. In this case, reference the "Finding Your Measurements" on [page 13](#) chart and find your ledger block measurement that corresponds to the width of your barrel ceiling.

**Finding Your Measurements
BARREL RISE CHART
Width 42"- 66"**

| WIDTH | 42" | 43" | 44" | 45" | 46" | 47" | 48" | 49" | 50" | 51" | 52" | 53" | 54" | 55" | 56" | 57" | 58" | 59" | 60" | 61" | 62" | 63" | 64" | 65" | 66" |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| 42" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 43" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 44" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 45" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 46" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 47" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 48" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 49" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 50" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 51" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 52" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 53" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 54" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 55" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 56" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 57" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 58" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 59" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 60" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 61" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 62" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 63" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 64" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 65" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |
| 66" | 4.514 | 4.544 | 4.574 | 4.604 | 4.634 | 4.664 | 4.694 | 4.724 | 4.754 | 4.784 | 4.814 | 4.844 | 4.874 | 4.904 | 4.934 | 4.964 | 4.994 | 5.024 | 5.054 | 5.084 | 5.114 | 5.144 | 5.174 | 5.204 | |

- 6.** Measure and mark **UP** from your total rise line along each wall and at each end of your barrel ceiling the ledger block measurement (e.g. if your width = 57 3/4", your ledger block measurement = 2").



- 7.** Using a circular saw, cut 2- 2x4 ledger blocks to the length of your barrel ceiling.



- 8.** Using a nail gun w/ 16d nails (PROs) or screw gun w/ 3" (or greater) wood screws (DIYers) fasten the bottom of your 2x4 ledger blocks to the bottom of ledger block marks down the length of your barrel ceiling on each wall.



- 9.** Measure and mark the **cut off** measurement on the top side of the square cut end of each barrel strut half. Reference the "Finding Your Measurements" chart on **page 13** and find the cut off measurement that corresponds to the width of your barrel ceiling.



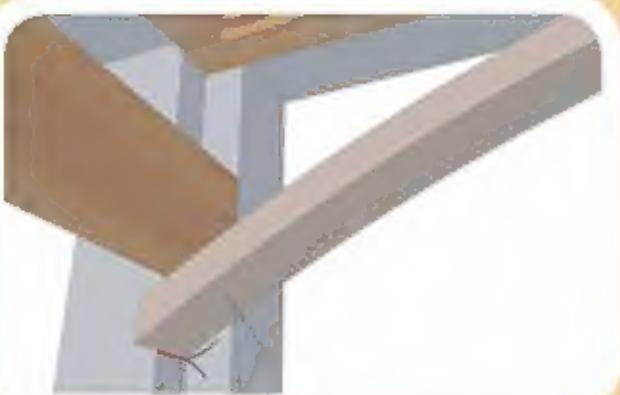
- 10.** Using a circular saw, cut off the excess arch (square cut / 90° angle) on each barrel strut half.



- 11.** Starting at one end of your barrel ceiling, align the pre-cut mitered half of each barrel strut to the total rise mark. Using a nail gun w/ 16d nails (PROs) or screw gun w/ 3" (or greater) wood screws (DIYers), attach a barrel strut half to the fire block, ledger block and/or wall stud.

Helpful Tip:

If using wood screws, predrilling pilot holes will greatly ease fastening barrel strut halves to the ledger block, fire block and/or wall stud.



- 12.** Align the square cut end of your barrel strut half to the center of the framed box and then nail or screw in place.



- 13.** Repeat steps 10-11 to complete the other side of the barrel strut.



- 14.** While spacing the barrel struts no more than 16" O.C., continue fastening the struts down the length of your barrel ceiling until finished.

Helpful Tip:

To learn how to space your barrel struts evenly along your length, visit www.archkit.com/barrel-spacing to watch our "How-To" video along with the mathematical formula.



That's it!

YOU'RE NOW READY FOR DRYWALL

For drywall instructions, go to page 9

IN A REMODEL WITH EXISTING DRYWALL



1. Before you can begin installing your barrel ceiling, you first need to do a bit of light framing. But before you can do this, you need to decide if you'll be attaching a can light in the center of your barrel ceiling.

NO CAN LIGHT

1. Using a stud finder, mark the placement of your studs along the length of your barrel ceiling on each wall.

2. Using a nail gun w/ 16d nails (PROs) or screw gun w/ 3" (or greater) wood screws (DIYers) fasten a rectangular box using 2x4s the width and length of barrel ceiling to the bottom of your drywall ceiling.

Where you do NOT have a stud suitably positioned along the length of your barrel ceiling, use 1/8" x 3" Steel Mushroom-Head Toggle Bolts with 1/8" x 1" washers to securely fasten your rectangular box to your existing drywall (or any hardware capable of fastening a 2x4 to drywall).

Video: For more clarification, visit www.archkit.com/toggle-bolts to watch our "How-To" video that shows you how to securely fasten your rectangular box to your drywall using toggle bolts.

If you'd prefer to drop your barrel ceiling more than the depth of a 2x4, simply move your rectangular box down from your drywall ceiling. Please note that you'll need to fasten a 2x4 to your drywall ceiling flush with the front face of your barrel ceiling for drywall backing. Where you do NOT have a joist/truss to attach the 2x4 drywall backing, use the Steel Mushroom-Head Toggle Bolts (or any hardware capable of fastening a 2x4 to drywall).

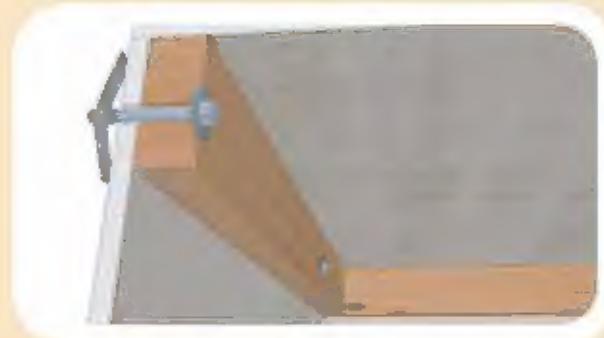
3. Fasten a double 2x4 centered in your rectangular box down the length of your barrel ceiling.

You're now ready to begin installing.

YES, ADD CAN LIGHT

1. Using a stud finder, mark the placement of your studs along the length of your barrel ceiling on each wall.

2. Using a nail gun w/ 16d nails (PROs) or screw gun w/ 3" (or greater) wood screws (DIYers) fasten 2 rectangular boxes using 2x4s the width and length of barrel ceiling to the bottom of your drywall ceiling.



Take care to space your 2 rectangular boxes far enough apart to fit your can light but no more than 14 ½" apart (drywall purposes).

Where you do NOT have a stud suitably positioned along the length of your barrel ceiling, use 1/8" x 3" Steel Mushroom-Head Toggle Bolts with 1/8" x 1" washers to securely fasten your rectangular box to your existing drywall (or any hardware capable of fastening a 2x4 to drywall).

Video: For more clarification, visit www.archkit.com/toggle-bolts to watch our "How-To" video that shows you how to securely fasten your rectangular box to your drywall using toggle bolts.

If you'd prefer to drop your barrel ceiling more than the depth of a 2x4, simply move your rectangular box down from your drywall ceiling. Please note that you'll need to fasten a 2x4 to your drywall ceiling flush with the front face of your barrel ceiling for drywall backing. Where you do NOT have a joist /truss to attach the 2x4 drywall backing, use the Steel Mushroom-Head Toggle Bolts (or any hardware capable of fastening a 2x4 to drywall).

3. Using a chalk line, snap a center line on the underside of 2 rectangular boxes centered down the length of your barrel ceiling.....*You're now ready to begin installing.*

2. Measure and mark down from your rectangular box(es) along each wall and at each end of your barrel ceiling the **total rise**. Reference the "Finding Your Measurements" chart on **page 13** and find the total rise measurement that corresponds to the width of your barrel ceiling (distance from wall to wall).

3. Using your marks as a guide, snap a line (with your chalk line) on both walls down the length of your barrel ceiling.

4. Check to see if the studs you marked on both walls line up with each other. If they do then skip to step 8 as you can attach the barrel struts halves directly to the studs through the drywall. If your studs don't align, then reference the "Finding Your Measurements" chart on **page 13** and find your ledger block measurement that corresponds to the width of your barrel ceiling.

5. Measure and mark **UP** from your total rise line along each wall and at each end of your barrel ceiling the ledger block measurement (e.g. if your width = 57 ¾", your ledger block measurement = 2").

6. Using a circular saw, cut 2- 2x4 ledger blocks to the length of your barrel ceiling.



| Finding Your Measurements BARREL RISE CHART | |
|--|------|
| Width 42"- 66" | |
| 42" | 1.00 |
| 43" | 1.01 |
| 44" | 1.02 |
| 45" | 1.03 |
| 46" | 1.04 |
| 47" | 1.05 |
| 48" | 1.06 |
| 49" | 1.07 |
| 50" | 1.08 |
| 51" | 1.09 |
| 52" | 1.10 |
| 53" | 1.11 |
| 54" | 1.12 |
| 55" | 1.13 |
| 56" | 1.14 |
| 57 1/4" | 1.15 |
| 58" | 1.16 |
| 59" | 1.17 |
| 60" | 1.18 |
| 61" | 1.19 |
| 62" | 1.20 |
| 63" | 1.21 |
| 64" | 1.22 |
| 65" | 1.23 |
| 66" | 1.24 |



- 7.** Using a nail gun w/ 16d nails (PROs) or screw gun w/ 3" (or greater) wood screws (DIYers) fasten the bottom of your 2x4 ledger blocks to the bottom of ledger block marks down the length of your barrel ceiling on each wall.



Where you do NOT have a stud suitably positioned along the length of your barrel ceiling, use 1/8"x 3" Steel Mushroom-Head Toggle Bolts with 1/8"x 1" washers to securely fasten your ledger blocks to your existing drywall (or any hardware capable of fastening a 2x4 to drywall).

- 8.** Measure and mark the cut off measurement on the top side of the square cut end of each barrel strut half. Reference the "*Finding Your Measurements*" chart on **page 13** and find the cut off measurement that corresponds to the width of your barrel ceiling.



- 9.** Using a circular saw, cut off the excess arch (square cut / 90° angle) on each barrel strut half.



- 10.** Starting at one end of your barrel ceiling, align the pre-cut mitered half of each barrel strut to the total rise mark. Using a nail gun w/ 16d nails (PROs) **or** screw gun w/ 3" (or greater) wood screws (DIYers), attach a barrel strut half to the wall stud or ledger block.



Helpful Tip:

If using wood screws, predrilling pilot holes will greatly ease fastening barrel strut halves to wall stud or ledger block.

- 11.** Align the square cut end of your barrel strut half to the center of the framed box and then nail or screw in place.



- 12.** Repeat steps 10-11 to complete the other side of the barrel strut.



- 13.** While spacing the barrel struts no more than 16" O.C., continue fastening the struts down the length of your barrel ceiling until finished.



Helpful Tip:

To learn how to space your barrel struts evenly along your length, visit www.archkit.com/barrel-spacing to watch our "How-To" video along with the mathematical formula.

That's it!

YOU'RE NOW READY FOR DRYWALL

For drywall instructions, go to page 9

DRYWALLING YOUR UNIVERSAL BARREL KIT



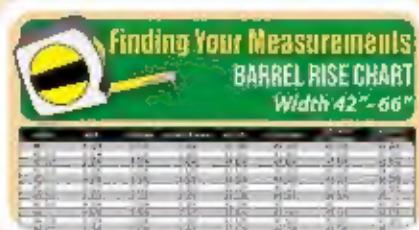
QUICK TIP

We recommend using two layers of $\frac{1}{4}$ " flexible drywall. Some big box stores stock $\frac{1}{4}$ " drywall, but in the event your local big box store does not, search Google using the following search terms:

- Quarter inch drywall, your city, your state/province
- $\frac{1}{4}$ Inch drywall, your city, your state/province
- $\frac{1}{4}$ " drywall, your city, your state/province
- $\frac{1}{4}$ inch drywall suppliers, your city, your state/province
- $\frac{1}{4}$ " drywall suppliers, your city, your state/province

Drywall can also be called wallboard, sheetrock, gypsum board, blue board or plaster board.

1. Find the length of your barrel ceiling arc by either measuring the curve with a tape measure or by referencing the "Finding Your Measurements" chart on **page 13** and find the length of your barrel ceiling arc that corresponds to the width of our barrel ceiling (distance wall to wall).



2. Measure the length of your barrel ceiling. Take care to add an 1/2" for the thickness of the drywall face which is added in step 7.



3. Transfer your drywall measurements to your drywall.



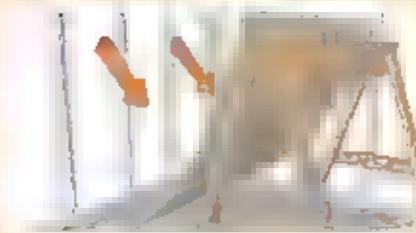
4. Using a utility knife cut your drywall to fit the width and length of your barrel ceiling.



- 5.** Wet the back of the drywall with a sponge and lean against the wall at a 45° angle so that the back of the drywall faces the wall.



- 6.** After letting the moisture soak into the back of drywall a few minutes, gently apply pressure and begin to create a curve.



- 7.** Attach a $\frac{1}{2}$ " piece of drywall along the front face of your barrel ceiling. Using a drywall cut out tool (PROs) or a wallboard saw (DIYers), cut the arc of the barrel using the strut as a guide.



- 8.** Using the barrel struts as forms slowly press the drywall into place.



- 9.** Using a screw gun and drywall screws fasten in place.



That's it!

YOU'RE NOW READY TO TAPE, MUD, TEXTURE AND PAINT.

To get ideas on how to finish your barrel ceiling (i.e. paint colors, faux finishing, gold leaf, etc...), visit www.archkit.com/barrel_vaults to get inspired.

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BARREL KIT

**ARCHWAYS & CEILINGS
MADE EASY**
www.ArchKit.com

A FEW CREATIVE IDEAS FOR THE UNIVERSAL BARREL KIT

EXTEND THE LENGTH

Simply combine 2 or more Universal Barrel Kits to extend the length of your barrel ceiling.



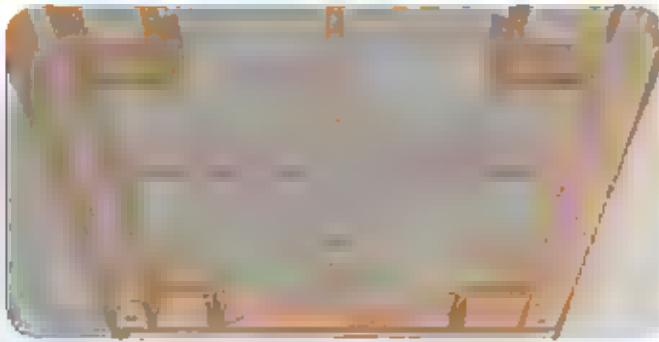
EXTEND THE WIDTH

If you have an 8'-0" entryway, you can extend the width of your barrel ceiling by creating soffits. Simply fur in and create a flat ceiling that transitions to your barrel ceiling.



GROIN VAULT CROSS

Simply combine 1 Universal Groin Vault Kit with 2 Universal Barrel Kits. Visit www.archkit.com/groin-vault-cross for more information.



UNIVERSAL PRODUCTS

by ARCHWAYS
&
CEILINGS
MADE EASY

UNIVERSAL GROIN KIT



UNIVERSAL DOME KIT



UNIVERSAL BARREL KIT



UNIVERSAL COVE KIT



UNIVERSAL ARCH KIT



We also make custom archway and ceiling kits to your measurements!



Custom Products

The Universal Products are the flagship products for each of our different archway and ceiling kits. They're the most popular sizes and style, neatly packed and ready to go! But, don't forget that we can also make archway and ceiling kits to your measurements.

Chances are if you can think it, then we can make it.
www.Archkit.com

Our "Picture This!" 3D computer aided design service allows you to picture it before you buy it.



Finding Your Measurements

BARREL RISE CHART

Width 42"- 66"

| WIDTH | RISE | TOTAL RISE | LEDGER BLOCKS | CUT OFF | 1/2" DRYWALL 1/4" DRYWALL | 1ST LAYER 1/4" DRYWALL | 2ND LAYER 1/4" DRYWALL |
|--------|-------|------------|---------------|---------|------------------------------|---------------------------|---------------------------|
| 42 | 4 1/4 | 5 1/4 | 1 5/8 | 13 7/8 | 43 1/8 | 43 1/8 | 43 3/8 |
| 42 1/4 | 4 1/4 | 5 1/4 | 1 5/8 | 13 3/4 | 43 3/8 | 43 3/8 | 43 5/8 |
| 42 1/2 | 4 3/8 | 5 3/8 | 1 5/8 | 13 5/8 | 43 5/8 | 43 5/8 | 43 7/8 |
| 42 3/4 | 4 3/8 | 5 3/8 | 1 5/8 | 13 1/2 | 43 7/8 | 43 7/8 | 44 1/8 |
| 43 | 4 3/8 | 5 3/8 | 1 5/8 | 13 3/8 | 44 1/4 | 44 1/4 | 44 3/8 |
| 43 1/4 | 4 1/2 | 5 1/2 | 1 3/4 | 13 1/4 | 44 1/2 | 44 1/2 | 44 5/8 |
| 43 1/2 | 4 1/2 | 5 1/2 | 1 3/4 | 13 1/8 | 44 3/4 | 44 3/4 | 45 |
| 43 3/4 | 4 5/8 | 5 5/8 | 1 3/4 | 12 7/8 | 45 | 45 | 45 1/4 |
| 44 | 4 5/8 | 5 5/8 | 1 3/4 | 12 3/4 | 45 1/4 | 45 1/4 | 45 1/2 |
| 44 1/4 | 4 3/4 | 5 3/4 | 1 3/4 | 12 5/8 | 45 5/8 | 45 5/8 | 45 3/4 |
| 44 1/2 | 4 3/4 | 5 3/4 | 1 3/4 | 12 1/2 | 45 7/8 | 45 7/8 | 46 |
| 44 3/4 | 4 3/4 | 5 3/4 | 1 3/4 | 12 3/8 | 46 1/8 | 46 1/8 | 46 3/8 |
| 45 | 4 7/8 | 5 7/8 | 1 3/4 | 12 1/4 | 46 3/8 | 46 3/8 | 46 5/8 |
| 45 1/4 | 4 7/8 | 5 7/8 | 1 3/4 | 12 1/8 | 46 5/8 | 46 5/8 | 46 7/8 |
| 45 1/2 | 5 | 6 | 1 3/4 | 12 | 46 7/8 | 46 7/8 | 47 1/8 |
| 45 3/4 | 5 | 6 | 1 3/4 | 11 7/8 | 47 1/4 | 47 1/4 | 47 3/8 |
| 46 | 5 1/8 | 6 1/8 | 1 3/4 | 11 3/4 | 47 1/2 | 47 1/2 | 47 3/4 |
| 46 1/4 | 5 1/8 | 6 1/8 | 1 3/4 | 11 5/8 | 47 3/4 | 47 3/4 | 48 |
| 46 1/2 | 5 1/4 | 6 1/4 | 1 3/4 | 11 3/8 | 48 | 48 | 48 1/4 |
| 46 3/4 | 5 1/4 | 6 1/4 | 1 3/4 | 11 1/4 | 48 3/8 | 48 3/8 | 48 1/2 |
| 47 | 5 3/8 | 6 3/8 | 1 3/4 | 11 1/8 | 48 5/8 | 48 5/8 | 48 7/8 |
| 47 1/4 | 5 3/8 | 6 3/8 | 1 3/4 | 11 | 48 7/8 | 48 7/8 | 49 1/8 |
| 47 1/2 | 5 1/2 | 6 1/2 | 1 3/4 | 10 7/8 | 49 1/8 | 49 1/8 | 49 3/8 |
| 47 3/4 | 5 1/2 | 6 1/2 | 1 3/4 | 10 3/4 | 49 3/8 | 49 3/8 | 49 5/8 |
| 48 | 5 5/8 | 6 5/8 | 1 7/8 | 10 5/8 | 49 3/4 | 49 3/4 | 49 7/8 |
| 48 1/4 | 5 5/8 | 6 5/8 | 1 7/8 | 10 1/2 | 50 | 50 | 50 1/4 |
| 48 1/2 | 5 3/4 | 6 3/4 | 1 7/8 | 10 3/8 | 50 1/4 | 50 1/4 | 50 1/2 |
| 48 3/4 | 5 3/4 | 6 3/4 | 1 7/8 | 10 1/8 | 50 1/2 | 50 1/2 | 50 3/4 |
| 49 | 5 7/8 | 6 7/8 | 1 7/8 | 10 | 50 7/8 | 50 7/8 | 51 |
| 49 1/4 | 5 7/8 | 6 7/8 | 1 7/8 | 9 7/8 | 51 1/8 | 51 1/8 | 51 3/8 |
| 49 1/2 | 6 | 7 | 1 7/8 | 9 3/4 | 51 3/8 | 51 3/8 | 51 5/8 |
| 49 3/4 | 6 | 7 | 1 7/8 | 9 5/8 | 51 5/8 | 51 5/8 | 51 7/8 |
| 50 | 6 1/8 | 7 1/8 | 1 7/8 | 9 1/2 | 52 | 52 | 52 1/8 |
| 50 1/4 | 6 1/8 | 7 1/8 | 1 7/8 | 9 3/8 | 52 1/4 | 52 1/4 | 52 1/2 |
| 50 1/2 | 6 1/4 | 7 1/4 | 1 7/8 | 9 1/4 | 52 1/2 | 52 1/2 | 52 3/4 |
| 50 3/4 | 6 1/4 | 7 1/4 | 1 7/8 | 9 | 52 3/4 | 52 3/4 | 53 |
| 51 | 6 3/8 | 7 3/8 | 1 7/8 | 8 7/8 | 53 1/8 | 53 1/8 | 53 3/8 |
| 51 1/4 | 6 3/8 | 7 3/8 | 1 7/8 | 8 3/4 | 53 3/8 | 53 3/8 | 53 5/8 |
| 51 1/2 | 6 1/2 | 7 1/2 | 1 7/8 | 8 5/8 | 53 5/8 | 53 5/8 | 53 7/8 |
| 51 3/4 | 6 1/2 | 7 1/2 | 1 7/8 | 8 1/2 | 53 7/8 | 53 7/8 | 54 1/8 |
| 52 | 6 5/8 | 7 5/8 | 1 7/8 | 8 3/8 | 54 1/4 | 54 1/4 | 54 1/2 |
| 52 1/4 | 6 5/8 | 7 5/8 | 1 7/8 | 8 1/4 | 54 1/2 | 54 1/2 | 54 3/4 |
| 52 1/2 | 6 3/4 | 7 3/4 | 1 7/8 | 8 | 54 3/4 | 54 3/4 | 55 |
| 52 3/4 | 6 3/4 | 7 3/4 | 1 7/8 | 7 7/8 | 55 | 55 | 55 3/8 |
| 53 | 6 7/8 | 7 7/8 | 1 7/8 | 7 3/4 | 55 3/8 | 55 3/8 | 55 5/8 |
| 53 1/4 | 7 | 8 | 1 7/8 | 7 5/8 | 55 5/8 | 55 5/8 | 55 7/8 |
| 53 1/2 | 7 | 8 | 1 7/8 | 7 1/2 | 55 7/8 | 55 7/8 | 56 1/8 |
| 53 3/4 | 7 1/8 | 8 1/8 | 2 | 7 3/8 | 56 1/4 | 56 1/4 | 56 1/2 |

FINDING YOUR MEASUREMENTS

| WIDTH | RISE | TOTAL RISE | LEDGER BLOCKS | CUT OFF | 1/2" DRYWALL | 1ST LAYER 1/4" DRYWALL | 2ND LAYER 1/4" DRYWALL |
|--------|--------|------------|---------------|---------|--------------|---------------------------|---------------------------|
| 54 | 7 1/8 | 8 1/8 | 2 | 7 1/4 | 56 1/2 | 56 1/2 | 56 3/4 |
| 54 1/4 | 7 1/4 | 8 1/4 | 2 | 7 | 56 3/4 | 56 3/4 | 57 |
| 54 1/2 | 7 1/4 | 8 1/4 | 2 | 6 7/8 | 57 1/8 | 57 1/8 | 57 3/8 |
| 54 3/4 | 7 3/8 | 8 3/8 | 2 | 6 3/4 | 57 3/8 | 57 3/8 | 57 5/8 |
| 55 | 7 1/2 | 8 1/2 | 2 | 6 5/8 | 57 5/8 | 57 5/8 | 57 7/8 |
| 55 1/4 | 7 1/2 | 8 1/2 | 2 | 6 1/2 | 58 | 58 | 58 1/4 |
| 55 1/2 | 7 5/8 | 8 5/8 | 2 | 6 3/8 | 58 1/4 | 58 1/4 | 58 1/2 |
| 55 3/4 | 7 5/8 | 8 5/8 | 2 | 6 1/8 | 58 1/2 | 58 1/2 | 58 3/4 |
| 56 | 7 3/4 | 8 3/4 | 2 | 6 | 58 3/4 | 58 3/4 | 59 1/8 |
| 56 1/4 | 7 7/8 | 8 7/8 | 2 | 5 7/8 | 59 1/8 | 59 1/8 | 59 3/8 |
| 56 1/2 | 7 7/8 | 8 7/8 | 2 | 5 3/4 | 59 3/8 | 59 3/8 | 59 5/8 |
| 56 3/4 | 8 | 9 | 2 | 5 5/8 | 59 3/4 | 59 3/4 | 60 |
| 57 | 8 | 9 | 2 | 5 1/2 | 60 | 60 | 60 1/4 |
| 57 1/4 | 8 1/8 | 9 1/8 | 2 | 5 1/4 | 60 1/4 | 60 1/4 | 60 1/2 |
| 57 1/2 | 8 1/4 | 9 1/4 | 2 | 5 1/8 | 60 5/8 | 60 5/8 | 60 7/8 |
| 57 3/4 | 8 1/4 | 9 1/4 | 2 | 5 | 60 7/8 | 60 7/8 | 61 1/8 |
| 58 | 8 3/8 | 9 3/8 | 2 | 4 7/8 | 61 1/8 | 61 1/8 | 61 1/2 |
| 58 1/4 | 8 3/8 | 9 3/8 | 2 | 4 3/4 | 61 1/2 | 61 1/2 | 61 3/4 |
| 58 1/2 | 8 1/2 | 9 1/2 | 2 1/8 | 4 5/8 | 61 3/4 | 61 3/4 | 62 |
| 58 3/4 | 8 5/8 | 9 5/8 | 2 1/8 | 4 3/8 | 62 | 62 | 62 3/8 |
| 59 | 8 5/8 | 9 5/8 | 2 1/8 | 4 1/4 | 62 3/8 | 62 3/8 | 62 5/8 |
| 59 1/4 | 8 3/4 | 9 3/4 | 2 1/8 | 4 1/8 | 62 5/8 | 62 5/8 | 62 7/8 |
| 59 1/2 | 8 7/8 | 9 7/8 | 2 1/8 | 4 | 63 | 63 | 63 1/4 |
| 59 3/4 | 8 7/8 | 9 7/8 | 2 1/8 | 3 7/8 | 63 1/4 | 63 1/4 | 63 1/2 |
| 60 | 9 | 10 | 2 1/8 | 3 5/8 | 63 1/2 | 63 1/2 | 63 7/8 |
| 60 1/4 | 9 1/8 | 10 1/8 | 2 1/8 | 3 1/2 | 63 7/8 | 63 7/8 | 64 1/8 |
| 60 1/2 | 9 1/8 | 10 1/8 | 2 1/8 | 3 3/8 | 64 1/8 | 64 1/8 | 64 3/8 |
| 60 3/4 | 9 1/4 | 10 1/4 | 2 1/8 | 3 1/4 | 64 3/8 | 64 3/8 | 64 3/4 |
| 61 | 9 3/8 | 10 3/8 | 2 1/8 | 3 1/8 | 64 3/4 | 64 3/4 | 65 |
| 61 1/4 | 9 3/8 | 10 3/8 | 2 1/8 | 2 7/8 | 65 | 65 | 65 3/8 |
| 61 1/2 | 9 1/2 | 10 1/2 | 2 1/8 | 2 3/4 | 65 3/8 | 65 3/8 | 65 5/8 |
| 61 3/4 | 9 5/8 | 10 5/8 | 2 1/8 | 2 5/8 | 65 5/8 | 65 5/8 | 66 |
| 62 | 9 5/8 | 10 5/8 | 2 1/8 | 2 1/2 | 66 | 66 | 66 1/4 |
| 62 1/4 | 9 3/4 | 10 3/4 | 2 1/4 | 2 3/8 | 66 1/4 | 66 1/4 | 66 1/2 |
| 62 1/2 | 9 7/8 | 10 7/8 | 2 1/4 | 2 1/8 | 66 1/2 | 66 1/2 | 66 7/8 |
| 62 3/4 | 9 7/8 | 10 7/8 | 2 1/4 | 2 | 66 7/8 | 66 7/8 | 67 1/8 |
| 63 | 10 | 11 | 2 1/4 | 1 7/8 | 67 1/8 | 67 1/8 | 67 1/2 |
| 63 1/4 | 10 1/8 | 11 1/8 | 2 1/4 | 1 3/4 | 67 1/2 | 67 1/2 | 67 3/4 |
| 63 1/2 | 10 1/4 | 11 1/4 | 2 1/4 | 1 1/2 | 67 3/4 | 67 3/4 | 68 1/8 |
| 63 3/4 | 10 1/4 | 11 1/4 | 2 1/4 | 1 3/8 | 68 1/8 | 68 1/8 | 68 3/8 |
| 64 | 10 3/8 | 11 3/8 | 2 1/4 | 1 1/4 | 68 3/8 | 68 3/8 | 68 3/4 |
| 64 1/4 | 10 1/2 | 11 1/2 | 2 1/4 | 1 1/8 | 68 3/4 | 68 3/4 | 69 |
| 64 1/2 | 10 5/8 | 11 5/8 | 2 1/4 | 7/8 | 69 | 69 | 69 3/8 |
| 64 3/4 | 10 5/8 | 11 5/8 | 2 1/4 | 3/4 | 69 3/8 | 69 3/8 | 69 5/8 |
| 65 | 10 3/4 | 11 3/4 | 2 1/4 | 5/8 | 69 5/8 | 69 5/8 | 70 |
| 65 1/4 | 10 7/8 | 11 7/8 | 2 1/4 | 1/2 | 70 | 70 | 70 1/4 |
| 65 1/2 | 10 7/8 | 11 7/8 | 2 1/4 | 3/8 | 70 1/4 | 70 1/4 | 70 5/8 |
| 65 3/4 | 11 | 12 | 2 1/4 | 1/8 | 70 5/8 | 70 5/8 | 70 7/8 |
| 66 | 11 1/8 | 12 1/8 | 2 3/8 | ■ | 70 7/8 | 70 7/8 | 71 1/4 |



UNIVERSAL

BARREL KIT



**ARCHWAYS
&
CEILINGS**
MADE EASY

Thanks for your interest in our product.

If along the way you have any questions regarding the installation of your Universal Barrel Kit please feel free to contact us.



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(855-272-4776)

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U.S. Patent Numbers 4,935,168; 5,459,974; 5,584,148; ES 649,393; 5,815,990; 6,128,864; 6,370,826 and other Patents Pending.